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<input type="checkbox"/>	L27	L26 and l3	9
<input type="checkbox"/>	L26	L25 and @ad<20010529	9
		resolution and detect\$4 same (failure or inactive or	
<input type="checkbox"/>	L25	broken) adj (gateway or element or client or device)	21
		and (load adj3 balanc\$) and recover\$4	
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<input type="checkbox"/>	L24	L23 and 709/2\$\$ccls.	33
<input type="checkbox"/>	L23	L15 and ad@<20010531	70
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<input type="checkbox"/>	L21	central adh3 server and L5	0
<input type="checkbox"/>	L20	L19 and L17	6
<input type="checkbox"/>	L19	central same monitor\$4 same system	37999
<input type="checkbox"/>	L18	6195680.pn. or 6374297.pn.	2
<input type="checkbox"/>	L17	L16 and @ad<20010529	16
<input type="checkbox"/>	L16	L15 and 709/2\$\$ccls.	33
		detect\$4 same (failure or inactive or broken) adj	
<input type="checkbox"/>	L15	(gateway or element or client or device) and (load adj3	70
		balanc\$) and (monitor\$4 or manag\$4)	
<input type="checkbox"/>	L14	6,195,680.pn.	1
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
		detect\$4 same (failure or inactive or broken) adj	
<input type="checkbox"/>	L13	(gateway or element or client or device) and (load adj3	1
		balanc\$) and recover\$4 and (monitor\$4 or manag\$4)	
		and (distribut\$4 same gateway\$)	

<input type="checkbox"/>	L12	L11 and 709/2\$\$ccls.	12
<input type="checkbox"/>	L11	L1 and gateway	20
<input type="checkbox"/>	L10	L7 and gateway	13
<input type="checkbox"/>	L9	(www or world wide web) and L8	1
<input type="checkbox"/>	L8	L7 and 709/2\$\$ccls.	8
<input type="checkbox"/>	L7	detect\$4 same (failure or inactive or broken) adj (gateway or element or client or device) and (load adj3 balanc\$) and recover\$4 and (monitor\$4 or manag\$4)	24
<input type="checkbox"/>	L6	L3 and 707/1\$\$ccls.	0
<input type="checkbox"/>	L5	L3 and (714/4).ccls.	2
<input type="checkbox"/>	L4	L3 and 709/2\$4.ccls.	8
<input type="checkbox"/>	L3	detect\$4 same (failure or inactive or broken) adj (gateway or element or client or device) and load balanc\$ and recover\$4 and (monitor\$4 or manag\$4)	23
<input type="checkbox"/>	L2	detect\$4 same (failure or inactive or broken) adj (gateway or element or client or device) and load balanc\$ and recover\$4 and activit\$4 with2 (monitor\$4 or manag\$4)	0
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Best 200 shown

1 [Distributed file systems: concepts and examples](#)

Eliezer Levy, Abraham Silberschatz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [citations](#), [indexing](#)

The purpose of a distributed file system (DFS) is to allow users of physical systems to share data and storage resources by using a common file system. A distributed file system (DFS) is a collection of workstations and mainframes connected by a local area network. A DFS is implemented as part of the operating system of each of the connected systems. This paper establishes a viewpoint that emphasizes the dispersed structure of a distributed file system and its impact on data and communication.

2 [File servers for network-based distributed systems](#)

Liba Svobodova


December 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(4.23 MB\)](#) Additional Information: [full citation](#), [terms](#), [review](#)

3 The evolution of Coda

◆ M. Satyanarayanan
 May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20
Publisher: ACM Press

Full text available:  pdf(441.35 KB) Additional Information: [full citation](#), [citations](#), [index](#)

Failure-resilient, scalable, and secure read-write access to shared information for users over wireless and wired networks is a fundamental computing challenge. This paper describes how the Coda file system has evolved to meet this challenge through various mechanisms for server replication, disconnected operation, adaptive use of local caches, isolation-only transactions, translucent caching, and opportunistic exploration of network surrogates. For each ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, distributed access, data staging, disaster recovery, disconnected operation, failure, intermittent networks, isolation-only transactions, low-bandwidth networks, optimistic replica control, server replication, translucent cache management, transaction operation

4 Measuring ISP topologies with rocketfuel

◆ Neil Spring, Ratul Mahajan, David Wetherall
 August 2002 **ACM SIGCOMM Computer Communication Review**, Part 1
conference on Applications, technologies, architectures, and protocols for
computer communications SIGCOMM '02, Volume 32
Publisher: ACM Press

Full text available:  pdf(1.21 MB) Additional Information: [full citation](#), [citations](#), [index](#)

To date, realistic ISP topologies have not been accessible to the researchers that depends on topology on an uncertain footing. In this paper, we present techniques that have enabled us to directly measure router-level ISP topologies to reduce the number of required traces compared to a brute-force, all-to-all approach by orders of magnitude without a significant loss in accuracy. They include various techniques to focus the ...

5 Scalable and fault-tolerant support for variable bit-rate data in the ex

◆ Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm
 November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4

Publisher: ACM PressFull text available:  pdf(1.01 MB)Additional Information: [full citation](#), [index terms](#)

We describe the design and implementation of the Exedra continuous media player. We experimentally evaluate alternative resource management policies using Exedra we built. Exedra has been designed to provide scalable and efficient support for media streams whose compression efficiency leads to reduced storage and bandwidth requirements in comparison to constant bit-rate streams of equivalent quality. We compare alternative disk striping policies, and quality of service ...

Keywords: Content distribution, multimedia compression

6 Facial modeling and animation
 Jörg Haber, Demetri Terzopoulos
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher: ACM Press**Full text available:  pdf(18.15 MB)Additional Information: [full citation](#), [index terms](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. A prerequisite for facial modeling, data acquisition is discussed in detail. We then discuss facial animation and present different approaches including parametric modeling, physics-based, and learning-based methods. State-of-the-art techniques such as facial animation, mass-spring models ...


7 Client-server computing
 Alok Sinha
July 1992 **Communications of the ACM**, Volume 35 Issue 7**Publisher: ACM Press**Full text available:  pdf(7.53 MB)Additional Information: [full citation](#), [index terms](#), [review](#)

Keywords: client-server computing

8 Clustering intrusion detection alarms to support root cause analysis

◆ Klaus Julisch
November 2003 **ACM Transactions on Information and System S**
6 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(285.72 KB\)](#) Additional Information: [full citation,](#)
[citations, index](#)

It is a well-known problem that intrusion detection systems overload the triggering thousands of alarms per day. This paper presents a new approach to detection alarms more efficiently. Central to this approach is the notion of a reason, which is referred to as the alarm's *root causes*. This paper observes that rather persistent root causes generally account for over 90% of the intrusion ...

Keywords: Intrusion detection, cluster analysis, data mining, false positives

9 Measuring ISP topologies with rocketfuel

Neil Spring, Ratul Mahajan, David Wetherall, Thomas Anderson

February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume

Publisher: IEEE Press

Full text available:  [pdf\(732.86 KB\)](#) Additional Information: [full citation,](#)
[citations, index](#)

To date, realistic ISP topologies have not been accessible to the researchers that depends on topology on an uncertain footing. In this paper, we present techniques that have enabled us to measure router-level ISP topologies with a number of required traces compared to a brute-force, all-to-all approach of similar magnitude without a significant loss in accuracy. They include the use of techniques to focus the measurement ...

Keywords: communication system operations and management, internet reliability

10 Level II technical support in a distributed computing environment


◆ Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on services SIGUCCS '96**

Publisher: ACM Press

Full text available:  [pdf\(5.73 KB\)](#) Additional Information: [full citation,](#)

MB)**11** Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, R
 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press


Full text available:  pdf(17.07 MB) Additional Information: full citation,

Level set methods, an important class of partial differential equation (PDE) based methods for modeling dynamic surfaces implicitly as the level set (iso-surface) of a sampled, scalar field. This course begins with preparatory material that introduces the concept of level set methods and how to use them to solve problems in computer graphics, geometric modeling. The course will include the structure and behavior of several different types of differential equations. Level set eq ...

12 The design and implementation of a next generation name service for

Venugopalan Ramasubramanian, Emin Gün Sirer
 August 2004 **ACM SIGCOMM Computer Communication Review , F**
conference on Applications, technologies, architectures, and
computer communications SIGCOMM '04, Volume 34

Publisher: ACM Press

Full text available:  pdf(472.93 KB) Additional Information: full citation,
citations, index

Name services are critical for mapping logical resource names to physical resources in distributed systems. The Domain Name System (DNS) used on the Internet is vulnerable to denial of service attacks, and does not support fast updates. This paper describes a new architecture fundamentally from the structure of the legacy DNS. This paper describes the implementation of the Cooperative Domain Name System (CoDoNS), which provides high lookup performance through ...

Keywords: DNS, peer to peer, proactive caching

13 A layered naming architecture for the internet

Hari Balakrishnan, Karthik Lakshminarayanan, Sylvia Ratnasamy, Scott Shenker, Michael Walfish
 August 2004 **ACM SIGCOMM Computer Communication Review , F**
conference on Applications, technologies, architectures, and

computer communications SIGCOMM '04, Volume 34

Publisher: ACM Press

Full text available:  pdf(110.95 KB) Additional Information: [full citation](#), [citations](#), [index](#)


Currently the Internet has only one level of name resolution, DNS, which converts domain names into IP addresses. In this paper we borrow liberally from there should be three levels of name resolution: from user-level descriptions from service identifiers to endpoint identifiers; and from endpoint identifiers additional levels of naming and resolution (1) allow services and data to be accessed by object ...

Keywords: distributed hash tables, global identifiers, internet architecture, resolution, naming

14 Distributed operating systems

 Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue

Publisher: ACM Press



Full text available:  pdf(5.49 MB) Additional Information: [full citation](#), [citations](#), [index](#)

Distributed operating systems have many aspects in common with centralized systems and differ in certain ways. This paper is intended as an introduction to distributed systems and especially to current university research about them. After a discussion of a distributed operating system and how it is distinguished from a computer system, design issues are discussed. Then several examples of current research are given in some detail ...

15 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing**


Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html (2.78 KB) Additional Information: [full citation](#), [terms](#)

16 Fault-tolerance in air traffic control systems

Flaviu Cristian, Bob Dancey, Jon Dehn

◆ **August 1996 ACM Transactions on Computer Systems (TOCS), Vc**
Publisher: ACM Press

Full text available:  pdf(264.57 KB) Additional Information: [full citation](#), [citations](#), [index](#)


The distributed real-time system services developed by Lockheed Martin group serve the infrastructure for a number of air traffic control systems: development or under development are the US Federal Aviation Administration Replacement (DSR) system, the UK Civil Aviation Authority's New Enrol and the Republic of China's Air Traffic Control Automated System (ATCA) intended to replace present ...

Keywords: exception handling, failure, failure classification, failure management, fault-tolerant systems, group communications, redundancy, server group, system architecture

17 An end-to-end approach to host mobility

◆ Alex C. Snoeren, Hari Balakrishnan
August 2000 Proceedings of the 6th annual international conference and networking MobiCom '00

Publisher: ACM Press


Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [citations](#), [index](#)

We present the design and implementation of an end-to-end architecture using dynamic updates to the Domain Name System (DNS) to track host connections are retained using secure and efficient connection migration connections to seamlessly negotiate a change in endpoint IP addresses party. Our architecture is secure—name updates are effected via the secure while TCP ...

18 A scalable content-addressable network

◆ Sylvia Ratnasamy, Paul Francis, Mark Handley, Richard Karp, Scott Shenker
August 2001 ACM SIGCOMM Computer Communication Review , F conference on Applications, technologies, architectures, computer communications SIGCOMM '01, Volume 31

Publisher: ACM Press

Full text available:  pdf(155.64 KB) Additional Information: [full citation](#), [citations](#), [index](#)

Hash tables - which map "keys" onto "values" - are an essential building

systems. We believe a similar functionality would be equally valuable to In this paper, we introduce the concept of a Content-Addressable Network infrastructure that provides hash table-like functionality on Internet-like scalable, fault-tolerant and completely self-organizing, and we demonstrate robustness and low ...

19 Cases from the field: Field studies of computer system administrators management tools and practices



Rob Barrett, Eser Kandogan, Paul P. Maglio, Eben M. Haber, Leila A. Takay
November 2004 **Proceedings of the 2004 ACM conference on Cooperative work CSCW '04**

Publisher: ACM Press

Full text available: pdf(405.09 KB) Additional Information: [full citation](#), [citations](#), [index](#)

Computer system administrators are the unsung heroes of the information scenes to configure, maintain, and troubleshoot the computer infrastructure of modern life. However, little can be found in the literature about the practices of these highly specialized computer users. We conducted a series of field studies at data centers, observing organizations, work practices, tools, and problems of system administrators ...

Keywords: collaboration, command-line interfaces, ethnography, situation administration

20 Scale and performance in a distributed file system



John H. Howard, Michael L. Kazar, Sherri G. Menees, David A. Nichols, M. Sidebotham, Michael J. West

February 1988 **ACM Transactions on Computer Systems (TOCS)**,

Publisher: ACM Press

Full text available: pdf(2.38 MB) Additional Information: [full citation](#), [citations](#), [index](#)

The Andrew File System is a location-transparent distributed file system supporting more than 5000 workstations at Carnegie Mellon University. Large scale distributed file systems complicate system operation. In this paper we present observations of the implementation, motivate changes in the areas of cache validation, server translation, and low-level storage representation, and quantitatively demonstrate how to scale gracefully. We ...

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1 [File servers for network-based distributed systems](#)



Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: [pdf\(4.23 MB\)](#)

[Additional Information](#)

2 [Special issue: AI in engineering](#)



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#)

[Additional Information](#)

The papers in this special issue were compiled from responses to the articles posted over the ARPAnet. The interest being shown in this area is reflected in the papers were received over the computer network.

3 [Clustering intrusion detection alarms to support root cause analysis](#)



Klaus Julisch

November 2003 **ACM Transactions on Information and System Security**

Publisher: ACM Press

Full text available: [pdf\(285.72 KB\)](#)

Additional Information

It is a well-known problem that intrusion detection systems overload the network and presents a new approach for handling intrusion detection alarms more efficiently. As a reason, which is referred to as the alarm's *root causes*. This paper observes that for over 90% of the alarms that an intrusion ...

Keywords: Intrusion detection, cluster analysis, data mining, false pos

4 Distributed file systems: concepts and examples

 Eliezer Levy, Abraham Silberschatz
Department of Computer Science, Bar Ilan University, Ramat Gan, Israel
E-mail: eliezer@macs.biu.ac.il, asilber@macs.biu.ac.il

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue


Publisher: ACM Press

Full text available: pdf(5.33 MB)

Additional Informati

The purpose of a distributed file system (DFS) is to allow users of physical storage to access files as if they were in a single, common file system. A typical configuration for a DFS is a collection of file servers, each of which stores a portion of the data. DFS is implemented as part of the operating system of each of the component servers. The distributed nature of the data and the dispersed structure and decentralization of both data and control are key features of a DFS.

5 Risks to the public: Risks to the Public

 Peter G. Neumann
March 2005, 1st printing

March 2005 **ACM SIGSOFT Software Engineering Notes**, Volume :

Publisher: ACM Press

Full text available: pdf(99.08 KB)

Additional Information

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of i
contributions by others, as indicated. Opinions expressed are individual
address problems relating to software, hardware, people, and other circ
include pointers to items in the online Risks Forum: (R i j) denotes RISI

6 The evolution of Coda

 M. Satyanarayanan
M. 0000-0000-0000-0000

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Vol. 20, No. 2, June 2002

Publisher: ACM Press

Full text available:  pdf(441.35 KB)

Additional Information

Failure-resilient, scalable, and secure read-write access to shared information is a fundamental computing challenge. In this article, we describe how the development of mechanisms for server replication, disconnected operation, transparent caching, and opportunistic exploitation of hardware surrogate

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, operation, failure, high availability, hoarding, intermittent networks, isc, optimistic replica control, server replication, translucent cache manager

7 A probe-based monitoring scheme for an object-oriented distributed



Partha Dasgupta

June 1986

**ACM SIGPLAN Notices , Conference proceedings on
OOPLSA '86**, Volume 21 Issue 11

Publisher: ACM Press

Full text available: [pdf\(762.64 KB\)](#)

[Additional Information](#)

8 An Approach to Preserving Sufficient Correctness in Open Resource

Orna Raz, Mary Shaw

November 2000 **Proceedings of the 10th International Workshop**

Publisher: IEEE Computer Society

Full text available: [pdf\(359.58 KB\)](#)

[Publisher Site](#)

[Additional Information](#)

Most software that most people use most of the time needs only moderate software, where the severe consequences of failure justify substantial investment. Occasional degraded service or even failure is tolerable. Unlike high-assurance everyday software has received only meager attention concerning how

Keywords: Medium-assurance software, everyday software, fitness for software homeostasis, distributed component-based software

9 Fault-tolerance in air traffic control systems



Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 **ACM Transactions on Computer Systems (TOCS)**, V

Publisher: ACM Press

Full text available: [pdf\(264.57 KB\)](#)

[Additional Information](#)

The distributed real-time system services developed by Lockheed Martin for air traffic control systems. Either completed development or under development. Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Automated System (ATCAS). These systems are intended to replace present

Keywords: exception handling, failure, failure classification, failure ma
redundancy, server group, software robustness, system architecture

10 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, F
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**


Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#)

[Additional Information](#)

Level set methods, an important class of partial differential equation (P
surface) of a sampled, evolving nD function. The course begins with pre
equations to solve problems in computer graphics, geometric modeling
different types of differential equations, e.g. the level set eq ...

11 Cluster-based scalable network services

 Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Ga
October 1997 **ACM SIGOPS Operating Systems Review , Proceedi
principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(2.42 MB\)](#)

[Additional Information](#)

12 Deployment experience: Design and deployment of industrial sensc

 [sea](#)
Lakshman Krishnamurthy, Robert Adler, Phil Buonadonna, Jasmeet Chhat
November 2005 **Proceedings of the 3rd international conference**

Publisher: ACM Press

Full text available:  [pdf\(677.48 KB\)](#)

[Additional Information](#)

Sensing technology is a cornerstone for many industrial applications. M
rooms, require sensors to ensure product quality and efficient and safe
equipment maintenance, in which vibration signatures are gathered to
surveys, we develop a general architecture for this class of industrial ap

Keywords: embedded hardware design, industrial applications of sensc

13 The design and implementation of a next generation name service f

- ◆ Venugopalan Ramasubramanian, Emin Gün Sirer
August 2004 **ACM SIGCOMM Computer Communication Review , architectures, and protocols for computer communi**
Publisher: ACM Press


Full text available:  [pdf\(472.93 KB\)](#) Additional Information

Name services are critical for mapping logical resource names to physical (DNS) used on the Internet, however, is slow, vulnerable to denial of service fundamentally from the structure of the legacy DNS. This paper describes (CoDoNS), a novel name service, which provides high lookup performance.

Keywords: DNS, peer to peer, proactive caching


14 Illustrative risks to the public in the use of computer systems and re

- ◆ Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume
Publisher: ACM Press

Full text available:  [pdf\(2.54 MB\)](#) Additional Information

15 Practical byzantine fault tolerance and proactive recovery

- ◆ Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**
Publisher: ACM Press

Full text available:  [pdf\(1.63 MB\)](#) Additional Information

Our growing reliance on online services accessible on the Internet demands interruptions. Software bugs, operator mistakes, and malicious attacks behavior, that is, Byzantine faults. This article describes a new replication tolerate Byzantine faults. BFT can be used in practice to implement replication.

Keywords: Byzantine fault tolerance, asynchronous systems, proactive

16 Computing curricula 2001

- ◆ September 2001 **Journal on Educational Resources in Computing**
Publisher: ACM Press

Full text available:  [pdf\(613.63 KB\)](#)  [html](#) Additional Information

(2.78 KB)

17 Distributed transactions for reliable systems

 Alfred Z. Spector, Dean Daniels, Daniel Duchamp, Jeffrey L. Eppinger, Raj
December 1985 **ACM SIGOPS Operating Systems Review , Proceedings**
principles SOSP '85, Volume 19 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.44 MB\)](#)

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18 Level II technical support in a distributed computing environment

 Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS**

Publisher: ACM Press

Full text available:  [pdf\(5.73 MB\)](#)

[Additional Information](#)

19 Experience with transactions in QuickSilver

 Frank Schmuck, Jim Wylie
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings**
principles SOSP '91, Volume 25 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.66 MB\)](#)

[Additional Information](#)

All programs in the QuickSilver distributed system behave atomically w
for *transactions* provides the framework required to support this, as we
normal process termination. This paper evaluates the use of transaction
some of the lessons learned from our experience with a complet ...

20 Distributed operating systems

 Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue

Publisher: ACM Press

Full text available:  [pdf\(5.49 MB\)](#)

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Distributed operating systems have many aspects in common with cent
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[PDF] UNIVERSITY OF SOUTH CAROLINA COMPUTER SERVICES 2002 Accomplishments

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obtain electronic reports regularly indicating the **reassignment** of a number ...

www.csd.sc.edu/Administration/2002Accomplishments.pdf - [Similar pages](#)

System control structure of the IBM eServer z900

Shown on the left in Figure 8 is the floorplan of a z900 **server** with locations of cages and ... it triggers the CC **reassignment** function3 for that cage. ...

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www.research.ibm.com/journal/rd/464/baitinger.pdf - [Similar pages](#)

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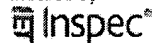
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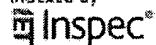
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